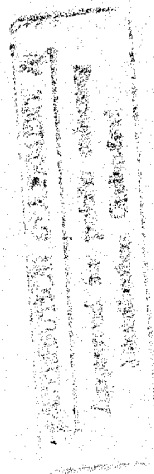
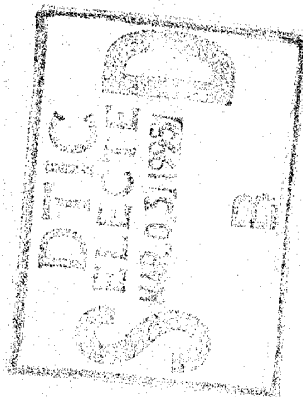


# RDTE PROGRAMS (R-1)



Department of Defense Budget  
for Fiscal Years 1996 and 1997

February 1995

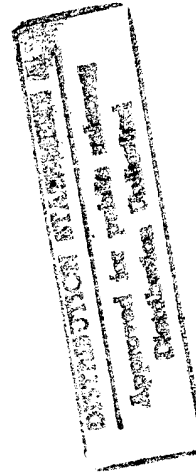
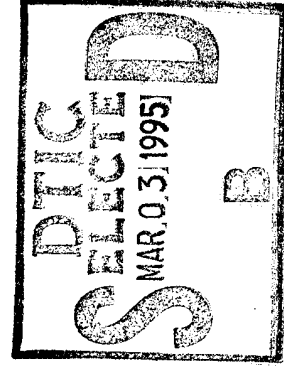
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## Preface

The R. D. T. & E. Programs (R-1) exhibit is derived from and consistent with the DoD Future Years Defense Program R. D. T. & E. Annex data base.

The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmittal by the President of the Budget of the United States Government. It is accompanied by an automated data base submission to the House Committee on Administration for input to the House Information System. This document is also provided to OASD(PA) for use by non-DoD activities.

Office of the Under Secretary of Defense (Comptroller)



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Department of Defense  
FY 1996/1997 R D T & E Program

Exhibit R-1

## Summary

Date: FEB 1995

Thousands of Dollars

	FY 1994	FY 1995	FY 1996	FY 1997
Summary By Appropriation				
Research Development Test & Eval Army	5,413,470	5,481,413	4,444,175	4,240,968
Research Development Test & Eval Navy	8,191,391	8,694,768	8,204,530	7,716,920
Research Development Test & Eval AF	12,177,830	12,057,417	12,598,439	11,655,554
Research Development Test & Eval Defwide	8,680,495	9,025,453	8,802,881	8,750,162
Director of Test & Eval Defense	231,757	233,142	259,341	267,029
Director of Operational Test & Evaluation	11,450	22,962	22,587	22,978
Total Research, Development, Test & Evaluation	34,706,393	35,515,155	34,331,953	32,653,611

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Department of Defense  
FY 1996/1997 R D T & E Program

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## Summary

Date: FEB 1995

Thousands of Dollars

	FY 1994	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities				
Basic Research	1,167,211	1,227,021	1,213,918	1,266,784
Exploratory Development	2,690,516	3,069,940	2,816,061	2,956,934
Advanced Development	6,208,230	4,339,424	3,796,157	3,795,610
Demonstration and Validation	2,696,592	4,324,990	4,229,027	4,000,429
Engineering and Manufacturing Development	7,334,269	8,930,372	8,759,104	8,837,435
RD&E Management Support	3,367,685	3,435,590	3,305,088	3,214,270
Operational Systems Development	11,241,890	10,187,818	10,212,598	8,582,149
Total Research, Development, Test & Evaluation	34,706,393	35,515,155	34,331,953	32,653,611

## Summary Recap of FYDP Programs

Strategic Forces	290,024	146,022	132,336	104,734
General Purpose Forces	3,618,569	3,673,889	3,266,084	2,427,472
Intelligence and Communications	6,731,404	5,953,564	6,363,521	5,622,297
Airlift/Sealift	22,037	23,006	18,096	5,067
Research and Development (FYDP Program 6)	23,424,061	25,478,608	24,377,842	24,333,444
Central Supply and Maintenance	329,298	30,392	23,089	22,497
Training Medical and Other	1,885	1,472	1,139	1,954
Administration and Assoc Activities	6,145	5,655	5,827	5,917
Support of Other Nations	1,869	1,915	3,713	3,762
Special Operations Forces	281,101	200,632	140,306	126,467

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## Summary

Date: FEB 1995

Thousands of Dollars

## Summary Recap of Budget Activities

Basic Research	199,481	223,855	204,620	212,168
Exploratory Development	621,125	633,666	434,097	473,224
Advanced Development	515,889	790,823	487,756	484,343
Demonstration and Validation	540,678	450,722	477,168	487,404
Engineering and Manufacturing Development	1,679,302	1,617,875	1,059,315	1,051,543
RDT&E Management Support	1,227,847	1,193,978	1,172,664	1,046,954
Operational Systems Development	629,148	570,494	608,555	485,332
Total Research Development Test & Eval Army	5,413,470	5,481,413	4,444,175	4,240,968

## Summary Recap of FYDP Programs

General Purpose Forces	380,068	430,959	471,080	375,417
Intelligence and Communications	165,513	81,733	68,689	56,218
Research and Development (FYDP Program 6)	4,825,635	4,968,721	3,904,406	3,809,333
Central Supply and Maintenance	41,884			
Administration and Assoc Activities	370			
Total Research Development Test & Eval Army	5,413,470	5,481,413	4,444,175	4,240,968

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Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	e
							Thousands of Dollars
1	0601101A In-House Laboratory Independent Research	1	10,778	13,532	14,340	15,028	U
2	0601102A Defense Research Sciences	1	183,085	201,706	127,565	135,285	U
3	0601104A University and Industry Research Centers	1	5,618	8,617	62,715	61,855	U
Basic Research							
4	0602104A TRACTOR ROSE	2	5,624	7,488	2,618	2,190	U
5	0602105A Materials Technology	2	19,370	24,913	10,176	10,872	U
6	0602120A Sensors and Electronic Survivability	2	33,124	26,973	21,918	23,879	U
7	0602122A TRACTOR HIP	2	13,699	11,355	5,885	9,563	U
8	0602211A Aviation Technology	2	34,570	19,962	20,381	26,045	U
9	0602270A EW Technology	2	20,656	18,122	15,311	14,970	U
10	0602303A Missile Technology	2	22,674	23,520	17,985	22,607	U
11	0602307A Laser Weapons Technology	2	4,000	3,945			U
12	0602308A Modeling and Simulation	2	9,845	58,230	23,770	30,764	U
13	0602601A Combat Vehicle and Automotive Technology	2	37,933	33,506	39,207	38,288	U
14	0602618A Ballistics Technology	2	29,478	25,710	28,126	33,995	U
15	0602622A Chemical, Smoke and Equipment Defeating Technology	2	39,554	31,646	1,891	1,990	U
16	0602623A Joint Service Small Arms Program	2	3,393	5,688	5,114	4,839	U
17	0602624A Weapons and Munitions Technology	2	34,845	36,209	23,968	24,251	U
18	0602705A Electronics and Electronic Devices	2	22,027	24,004	17,525	17,555	U

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Date: FEB 1995

Line Element No	Program Element Number	Item	Act	Thousands of Dollars				FY 1997 e
				FY 1994	FY 1995	FY 1996	FY 1997 c	
19	0602709A	Night Vision Technology	2	18,852	19,326	17,086	17,175	U
20	0602716A	Human Factors Engineering Technology	2	15,860	14,265	12,534	15,012	U
21	0602720A	Environmental Quality Technology	2	53,093	45,663	21,304	24,164	U
22	0602727A	Non-System Training Device Technology	2	4,371				U
23	0602782A	Command, Control, Communications Technology	2	10,360	16,827	15,726	16,251	U
24	0602783A	Computer and Software Technology	2	6,340	4,529	3,992	4,342	U
25	0602784A	Military Engineering Technology	2	39,559	40,813	35,220	37,729	U
26	0602785A	Manpower/Personnel/Training Technology	2	13,181	10,031	7,500	10,055	U
27	0602786A	Logistics Technology	2	30,472	34,110	28,036	27,530	U
28	0602787A	Medical Technology	2	94,054	94,063	56,658	56,973	U
29	0602788A	TRACTOR FLOP	2	1,536	412			U
30	0602789A	ARMY Artificial Intelligence Technology	2	2,655	2,356	2,166	2,185	U
Exploratory Development				621,125	633,666	434,097	473,224	
31	0603001A	Logistics Advanced Technology	3	11,186	14,900	10,569	13,279	U
32	0603002A	Medical Advanced Technology	3	111,666	252,543	11,760	12,099	U
33	0603003A	Aviation Advanced Technology	3	42,693	52,062	48,593	42,987	U
34	0603004A	Weapons and Munitions Advanced Technology	3	26,583	32,122	18,518	20,558	U
35	0603005A	Combat Vehicle and Automotive Advanced Technology	3	39,318	61,346	30,616	32,570	U
36	0603006A	Command, Control, Communications Advanced Technology	3	7,786	16,829	16,922	20,885	U

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Line No	Program Element Number	Item	Act	Thousands of Dollars				e
				FY 1994	FY 1995	FY 1996	FY 1997 c	
37	0603007A	Manpower, Personnel and Training Advanced Technology	3	8,093	5,100	4,826	4,635	U
38	0603009A	TRACTOR HIKE	3	4,279	5,326	14,588	17,688	U
39	0603012A	TRACTOR HOLE	3	11,463	7,039			U
40	0603013A	TRACTOR DIRT	3	1,857	1,642	1,805	3,434	U
41	0603017A	TRACTOR RED	3	15,377	10,029	5,663	5,278	U
42	0603020A	TRACTOR ROSE	3	6,683	6,354	4,513	3,229	U
43	0603105A	Acquired Immune Deficiency Syndrome (AIDS) Research	3	32,892	30,345	2,946	3,006	U
44	0603122A	TRACTOR HIP	3		4,538			U
45	0603238A	Global Surveillance/Air Defense/Precision Strike Technology Demonstration	3	20,552	40,198	39,824	39,998	U
46	0603270A	EW Technology	3	32,048	6,743	4,022	6,489	U
47	0603313A	Missile and Rocket Advanced Technology	3	45,053	77,212	123,913	112,429	U
48	0603322A	TRACTOR CAGE	3	9,298	17,261	8,530	8,085	U
49	0603606A	Landmine Warfare and Barrier Advanced Technology	3	9,827	21,612	18,820	15,649	U
50	0603607A	Joint Service Small Arms Program	3	7,405	7,163	4,487	5,381	U
51	0603654A	Line-Of-Sight, Antitank (LOSAT)	3	5,122	4,871	14,727	18,707	U
52	0603710A	Night Vision Advanced Technology	3	33,324	33,177	37,969	37,193	U
53	0603734A	Military Engineering Advanced Technology	3	2,865	12,656	12,380	13,713	U
54	0603759A	Chemical Biological Defense and Smoke Advanced Technology	3	2,591	196			U
55	0603771A	Industrial Preparedness Manufacturing Technology	3		35,335	17,776	17,284	U
56	0603772A	Advanced Tactical Computer Science and Technology	3	27,928	34,224	33,989	29,767	U
Advanced Development				515,889	790,823	487,756	484,343	

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Program Line Element No	Item	Act	Thousands of Dollars				FY 1997 c
			FY 1994	FY 1995	FY 1996	FY 1997 c	
57	0603018A TRACTOR TREAD	4	11,814	20,132	14,930	2,494	U
58	0603019A TRACTOR DUMP	4	18,647	15,574	15,025	13,931	U
59	0603308A Army Missile Defense Systems Integration (Dem/Val	4			2,985	2,985	U
60	0603604A Nuclear Munitions - Adv Dev	4	1,972				U
61	0603617A Non-Line of Sight (N-LOS)	4	24,630				U
62	0603619A Landmine Warfare and Barrier - Adv Dev	4	21,148	23,562	32,839	17,044	U
63	0603627A Smoke, Obscurant and Target Defeating Sys-Adv Dev	4	5,068	2,789	3,248	6,567	U
64	0603639A Armament Enhancement Initiative	4			61,491	64,420	U
65	0603640A Artillery Propellant Development	4	30,060	25,588	10,946		U
66	0603645A Armored System Modernization - Adv Dev	4	145,624	172,390	201,513	267,885	U
67	0603647A TRACTOR DIRT	4	261	410			U
68	0603649A Engineer Mobility Equipment Advanced Development	4	29,070	15,726	5,615		U
69	0603653A Advanced Tank Armament System (ATAS)	4		4,940	9,955	9,979	U
70	0603713A Army Data Distribution System	4	19,356	5,399	6,694	9,787	U
71	0603730A Tactical Surveillance System - Adv Dev	4	15,140	11,717			U
72	0603745A Tactical Electronic Support Systems - Adv Dev	4	4,296	1,695	2,937	2,096	U
73	0603746A Single Channel Ground and Airborne Radio System (SINGARS) Adv Dev	4	2,461				U
74	0603747A Soldier Support and Survivability	4	11,720	11,636	33,848	16,481	U
75	0603760A Distributive Interactive Simulations (DIS) - Advanced Development	4		8,385			U
76	0603766A Tactical Electronic Surveillance System - Adv Dev	4	15,069	14,815	28,369	26,913	U

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Thousands of Dollars						
77	0603774A Night Vision Systems Advanced Development	4	4,694	2,678	2,960	2,919 U
78	0603801A Aviation - Adv Dev	4	15,480	16,647	8,430	8,666 U
79	0603802A Weapons and Munitions - Adv Dev	4	752	1,246		U
80	0603804A Logistics and Engineer Equipment - Adv Dev	4	13,609	14,664	7,427	7,851 U
81	0603805A Combat Service Support Computer System Evaluation and Analysis	4	21,525	18,635	13,969	13,581 U
82	0603806A NBC Defense System-Adv Dev	4	36,131	15,072		U
83	0603807A Medical Systems - Adv Dev	4	21,480	16,439	10,576	10,571 U
84	0603851A TRACTOR CAGE (Dem/Val)	4			3,411	3,234 U
85	0603889A Counterdrug RDT&E Projects	4	1,749			U
86	0604814A Sense and Destroy Armament Missile - Eng Dev	4	13,600			U
Demonstration and Validation						
87	0604018A TRACTOR TREAD	5	540,678	450,722	477,168	487,404
88	0604201A Aircraft Avionics	5	7,358	14,238	22,044	2,037 U
89	0604220A Armed, Deployable OH-58D	5			726	1,194 U
90	0604223A Comanche	5	365,185	488,567	199,103	298,609 U
91	0604270A EW Development	5	83,070	91,914	65,222	72,379 U
92	0604315A Tri-Service Standoff Attack Missile	5	38,330	19,421		U
93	0604321A All Source Analysis System	5	8,417	42,049	52,698	37,428 U
94	0604325A Advanced Missile System-Heavy	5			995	1,493 U

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Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars						
95	0604328A TRACTOR CAGE	5				1,617 U
96	0604604A Medium Tactical Vehicles	5	8,736	6,452		U
97	0604609A Smoke, Obscurant and Target Defeating Sys-Eng Dev	5	17,140	3,703	2,000	U
98	0604611A JAVELIN	5	47,205	34,268		U
99	0604619A Landmine Warfare	5	23,272	33,356	31,028	18,253 U
100	0604622A Heavy Tactical Vehicles	5	2,437			U
101	0604633A Air Traffic Control	5	1,965	7,766	1,813	1,838 U
102	0604640A Advanced Command and Control Vehicle (AC2V)	5	10,525	31,676	18,238	6,866 U
103	0604641A Tactical Unmanned Ground Vehicle (TUGV)	5				2,985 U
104	0604642A Light Tactical Wheeled Vehicles	5			2,187	896 U
105	0604645A Armored Systems Modernization (ASM)-Eng. Dev.	5	89,489	62,267	38,465	20,744 U
106	0604649A Engineer Mobility Equipment Development	5	16,240	12,106	21,831	14,384 U
107	0604710A Night Vision Systems - Eng Dev	5	41,328	42,803	39,697	39,295 U
108	0604713A Combat Feeding, Clothing, and Equipment	5	27,008	24,719	17,959	67,971 U
109	0604715A Non-System Training Devices - Eng Dev	5	57,004	47,029	55,303	53,343 U
110	0604716A Terrain Information - Eng Dev	5	9,375	10,213	9,011	7,630 U
111	0604726A Integrated Meteorological Support System	5	936			U
112	0604740A Tactical Surveillance System - Eng Dev	5	37,534	2,093		U
113	0604741A Air Defense Command, Control and Intelligence - Eng Dev	5	17,526	28,136	22,030	21,143 U
114	0604746A Automatic Test Equipment Development	5	19,926	15,512	5,437	2,878 U

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Line Element No	Program Element Number	Item	Act	Thousands of Dollars					FY 1997 c e
				FY 1994	FY 1995	FY 1996	FY 1997 c e		
115	0604760A	Distributive Interactive Simulations (DIS) -	5	6,412				U	
116	0604766A	Engineering Development	5	47,470	28,065	24,699	15,302	U	
117	0604768A	Tactical Electronic Surveillance System - Eng Dev	5	121,894	117,526	193,303	185,974	U	
118	0604770A	TRACTOR BAT	5	29,415	39,655	18,771	7,884	U	
119	0604778A	Joint Surveillance/Target Attack Radar System	5	4,455	3,797	460	449	U	
120	0604780A	Positioning Systems Development	5	50,801	51,375	59,475	20,669	U	
121	0604801A	Combined Arms Tactical Trainer (CATT)	5	8,221	4,650	5,142	6,899	U	
122	0604802A	Aviation - Eng Dev	5	20,865	16,900	15,928	14,607	U	
123	0604804A	Weapons and Munitions - Eng Dev	5	22,397	21,970	20,756	19,150	U	
124	0604805A	Logistics and Engineer Equipment - Eng Dev	5	8,971	11,237	13,432	13,842	U	
125	0604806A	Command, Control, Communications Systems - Eng De	5	42,455	19,510			U	
126	0604807A	NBC Defense System-Eng Dev	5	15,665	12,389	4,738	4,961	U	
127	0604808A	Medical Materiel/Medical Biological Defense	5	2,912	7,689	7,382	20,429	U	
128	0604814A	Equipment - Eng Dev	5	28,408	41,395	16,617	3,626	U	
129	0604816A	Landmine Warfare/Barrier - Eng Dev	5	271,103	169,048	23,590	4,080	U	
130	0604817A	Sense and Destroy Armament Missile - Eng Dev	5	33,627	18,424	30,466	17,359	U	
131	0604818A	Longbow - Eng Dev	5	23,976	18,694	18,769	16,960	U	
132	0604820A	Non-Cooperative Target Recognition - Eng Dev	5	16,661	10,851			U	
		Army Tactical Command & Control Systems (ATCCS)	5						
		Eng Dev	5						
		Radar Development	5						
		Engineering and Manufacturing Development		1,679,302	1,617,875	1,059,315	1,051,543		

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Line No	Program Element Number	Item	Act	Thousands of Dollars					FY 1997 c
				FY 1994	FY 1995	FY 1996	FY 1997 e		
133	0604256A	Threat Simulator Development	6	19,643	19,866	14,397	12,870	U	
134	0604258A	Target Systems Development	6	16,936	13,929	14,292	11,393	U	
135	0604759A	Major T&E Investment	6	31,803	49,853	66,874	44,122	U	
136	0605103A	Rand Arroyo Center	6	17,252	15,838	21,872	22,355	U	
137	0605104A	Los Alamos Meson Physics Facility	6	14,767	19,729			U	
138	0605301A	Army Kwajalein Atoll	6	168,832	162,174	149,769	143,798	U	
139	0605502A	Small Business Innovative Research	6	68,830				U	
140	0605601A	Army Test Ranges and Facilities	6	144,783	154,529	147,330	146,464	U	
141	0605602A	Army Technical Test Instrumentation and Targets	6	23,396	31,545	27,600	23,980	U	
142	0605604A	Survivability/Lethality Analysis	6	31,907	37,523	34,535	33,695	U	
143	0605605A	DOD High Energy Laser Test Facility	6	24,471	24,474	3,000		U	
144	0605606A	Aircraft Certification	6			2,976	2,984	U	
145	0605702A	Meteorological Support to RDT&E Activities	6	17,552	12,379	6,660	6,486	U	
146	0605706A	Material Systems Analysis	6	19,376	18,971	17,864	14,434	U	
147	0605709A	Exploitation of Foreign Items	6	18,471	11,867	8,869	7,541	U	
148	0605710A	Joint Nuclear Biological Chemical Test, Assessment and Survivabilit	6	7,048	4,714			U	
149	0605712A	Support of Operational Testing	6	51,592	31,637	46,491	50,110	U	
150	0605801A	Programwide Activities	6	97,374	95,614	63,649	55,365	U	
151	0605802A	International Cooperative Research and Developmen	6	1,700	1,615	1,606	1,609	U	
152	0605803A	Technical Information Activities	6	11,672	12,994	16,401	17,072	U	

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Department of the Army  
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Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
153	0605805A	Munitions Standardization, Effectiveness and Safety	6	23,611	14,306	6,903	1,908	U
154	0605810A	RDTE Support for Nondevelopmental Items	6	5,561	3,482			U
155	0605853A	Environmental Conservation	6			2,533	1,649	U
156	0605854A	Pollution Prevention	6			13,005	8,807	U
157	0605856A	Environmental Compliance	6	46,219	50,987	66,101	48,876	U
158	0605876A	Minor Construction (RPM) - RDT&E	6	2,093	5,709	5,497	4,407	U
159	0605878A	Maintenance and Repair (RPM) - RDT&E	6	62,729	81,060	95,696	65,530	U
160	0605896A	Base Operations - RDT&E	6	275,768	295,691	329,978	312,953	U
161	0605898A	Management Headquarters (Research and Development)	6	24,091	23,492	8,766	8,546	U
162	0909999A	Financing for Cancelled Account Adjustments	6	370				U
		RDTE Management Support		1,227,847	1,193,978	1,172,664	1,046,954	
163	0603778A	MLRS Product Improvement Program	7	41,683	57,802	68,786	53,697	U
164	0203726A	Adv Field Artillery Tactical Data System	7	43,162	48,080	39,422	38,785	U
165	0203735A	Combat Vehicle Improvement Programs	7	107,856	109,778	197,669	170,427	U
166	0203740A	Maneuver Control System	7	28,664	37,158	38,327	33,991	U
167	0203744A	Aircraft Modifications/Product Improvement Programs	7	9,500	5,072	2,326	199	U
168	0203752A	Aircraft Engine Component Improvement Program	7	6,461	7,435	3,012	3,025	U
169	0203758A	Digitization	7	19,690	82,727	88,567	80,631	U
170	0203801A	Missile/Air Defense Product Improvement Program	7	66,430	37,119	17,069	16,392	U

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Thousands of Dollars							
171	0203802A	Other Missile Product Improvement Programs	7	66,986	67,365	57,949	6,348 U
172	0203806A	TRACTOR RIG	7	4,186	2,650	3,215	3,265 U
173	0203808A	TRACTOR CARD	7	10,942	14,369	10,156	7,122 U
174	0208010A	Joint Tactical Communications Program (TRI-TAC)	7	16,191	19,206	13,368	15,232 U
175	0301359A	Special Army Program	7	8,168	6,866	8,690	12,349 U
176	0303140A	Information Systems Security Program	7	6,950	7,585	3,644	3,247 U
177	0303142A	SATCOM Ground Environment	7	133,757	67,282	56,355	40,622 U
178	0303152A	World-Wide Military Command and Control Systems, Information System	7	8,513			U
179	0305127A	Foreign Counterintelligence Activities	7	485			U
180	0305150A	Air Reconnaissance Low	7	7,640			U
181	0708045A	End Item Industrial Preparedness Activities	7	41,884			U
Operational Systems Development							
				629,148	570,494	608,555	485,332
Total Research Development Test & Eval Army							
				5,413,470	5,481,413	4,444,175	4,240,968

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## Summary

Date: FEB 1995

Thousands of Dollars

## Summary Recap of Budget Activities

Basic Research	402,466	417,974	402,001	418,851
Exploratory Development	445,642	511,310	478,770	518,268
Advanced Development	418,109	539,137	500,255	533,302
Demonstration and Validation	1,689,159	1,526,638	1,587,397	1,738,171
Engineering and Manufacturing Development	1,710,724	2,290,127	2,379,735	2,208,505
RD&E Management Support	758,961	751,488	587,940	583,303
Operational Systems Development	2,766,330	2,658,094	2,268,432	1,716,520
Total Research Development Test & Eval Navy	8,191,391	8,694,768	8,204,530	7,716,920

## Summary Recap of FYDp Programs

Strategic Forces	122,251	137,416	93,694	86,415
General Purpose Forces	1,988,075	1,902,086	1,552,322	1,049,717
Intelligence and Communications	515,375	618,592	622,416	580,388
Research and Development (FYDp Program 6)	5,425,061	6,036,674	5,936,098	6,000,400
Central Supply and Maintenance	140,629			
Total Research Development Test & Eval Navy	8,191,391	8,694,768	8,204,530	7,716,920

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				Thousands of Dollars			
1	0601152N	In-House Independent Laboratory Research	1	16,798	17,088	16,084	17,152 U
2	0601153N	Defense Research Sciences	1	385,668	400,886	385,917	401,699 U
Basic Research							
3	0602111N	Surface/Aerospace Surveillance and Weapons Technology	2	32,158	36,388	32,658	35,387 U
4	0602121N	Surface Ship Technology	2	30,700	35,059	36,786	42,430 U
5	0602122N	Aircraft Technology	2	21,690	28,622	22,238	26,328 U
6	0602131M	Marine Corps Landing Force Technology	2	17,005	16,774	17,623	18,040 U
7	0602232N	Command, Control, and Communications Technology	2	50,471	60,546	60,090	65,540 U
8	0602233N	Readiness, Training, and Environmental Quality Technology	2	41,038	50,089	40,511	42,122 U
9	0602234N	Materials, Electronics and Computer Technology	2	77,723	93,623	74,849	86,515 U
10	0602270N	Electronic Warfare Technology	2	14,637	17,176	18,341	20,836 U
11	0602314N	Undersea Surveillance Weapon Technology	2	53,953	49,648	51,182	53,966 U
12	0602315N	Mine Countermeasures, Mining and Special Warfare	2	23,347	37,475	43,384	44,303 U
13	0602435N	Oceanographic and Atmospheric Technology	2	43,854	53,304	45,526	47,280 U
14	0602633N	Undersea Warfare Weaponry Technology	2	39,066	32,606	35,582	35,521 U
Exploratory Development							
15	0603217N	Air Systems and Weapons Advanced Technology	3	37,270	26,097	17,082	24,377 U
16	0603238N	Precision Strike and Air Defense	3	32,329	36,932	64,502	67,423 U
17	0603270N	Advanced Electronic Warfare Technology	3	12,617	14,468	14,532	16,844 U

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Line Element No	Program Element Number	Item	Act	Thousands of Dollars				FY 1997 c e
				FY 1994	FY 1995	FY 1996	FY 1997 c	
18	0603508N	Ship Propulsion System	3	18,532	60,266	43,544	52,010	U
19	0603640M	Marine Corps Advanced Technology Demonstration (ATD)	3	26,944	24,333	25,896	26,738	U
20	0603706N	Medical Development	3	54,529	56,620	27,754	18,166	U
21	0603707N	Manpower, Personnel and Training Adv Tech Dev	3	16,997	18,493	17,797	20,048	U
22	0603712N	Environmental Quality and Logistics Advanced Technology	3	15,186	22,010	21,504	22,474	U
23	0603747N	Undersea Warfare Advanced Technology	3	71,362	61,301	51,816	57,525	U
24	0603771N	Industrial Preparedness Manufacturing Technology	3		86,118	41,251	37,609	U
25	0603782N	Shallow Water MCM Demos	3	43,739	40,989	50,958	50,958	U
26	0603792N	Advanced Technology Transition	3	85,894	71,668	96,825	108,423	U
27	0603794N	C3 Advanced Technology	3	2,710	19,842	26,794	30,707	U
		Advanced Development		418,109	539,137	500,255	533,302	
28	0603207N	Air/Ocean Tactical Applications	4	16,031	16,512	16,621	16,523	U
29	0603208N	Training System Aircraft	4	31,821	4,010	3,069	4,005	U
30	0603216N	Aviation Survivability	4	21,068	15,892	7,477	8,166	U
31	0603254N	ASW Systems Development	4	34,512	29,646	30,202	30,762	U
32	0603261N	Tactical Airborne Reconnaissance	4	32,540	45,840	18,924	17,737	U
33	0603382N	Advanced Combat Systems Technology	4		3,342	2,803	4,254	U
34	0603451N	Tactical Space Operations	4		2,177	1,383	1,326	U
35	0603502N	Surface and Shallow Water Mine Countermeasures	4	44,741	42,173	54,527	53,424	U

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Thousands of Dollars							
36	0603504N	Advanced Submarine Combat Systems Development	4	22,608	22,990	21,281	20,610 U
37	0603506N	Surface Ship Torpedo Defense	4	33,910	20,460	10,049	7,758 U
38	0603512N	Carrier Systems Development	4	11,061	15,193	16,164	16,082 U
39	0603513N	Shipboard System Component Development	4	27,485	25,930	16,804	13,723 U
40	0603514N	Ship Combat Survivability	4	17,121	14,443	11,649	10,027 U
41	0603525N	PILOT FISH	4	26,290	33,722	78,960	96,753 U
42	0603536N	RETRACT JUNIPER	4	32,195	19,650	10,002	23,100 U
43	0603542N	Radiological Control	4	3,254	3,442	3,202	3,060 U
44	0603553N	Surface ASW	4		6,572	6,655	5,972 U
45	0603561N	Advanced Submarine System Development	4	140,424	81,394	35,748	31,602 U
46	0603562N	Submarine Tactical Warfare Systems	4	6,314	7,321	5,070	4,386 U
47	0603563N	Ship Concept Advanced Design	4	14,243	28,806	16,736	15,511 U
48	0603564N	Ship Preliminary Design & Feasibility Studies	4	34,533	31,119	9,708	8,313 U
49	0603570N	Advanced Nuclear Power Systems	4	136,537	126,185	141,835	136,004 U
50	0603573N	Advanced Surface Machinery Systems	4	81,954	37,950	39,156	34,699 U
51	0603576N	CHALK EAGLE	4	69,465	57,825	114,175	154,299 U
52	0603582N	Combat System Integration	4	7,437	7,380	5,414	7,180 U
53	0603609N	Conventional Munitions	4	37,401	40,965	31,537	32,304 U
54	0603610N	Advanced Warhead Development (MK-50)	4	15,821		2,993	2,996 U
55	0603611M	Marine Corps Assault Vehicles	4	21,192	34,499	34,157	33,170 U

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			Thousands of Dollars				
56	0603612M	Marine Corps Mine/Countermeasures Systems - Adv Dev	4	645	6,434	2,470	3,185 U
57	0603634N	Electromagnetic Effects Protection Development	4	2,443			U
58	0603635M	Marine Corps Ground Combat/Support System	4	24,271	23,168	46,733	51,417 U
59	0603654N	Joint Service Explosive Ordnance Development	4	8,981	8,362	7,298	7,020 U
60	0603709N	Advanced Marine Biological System	4	3,387	3,478		U
61	0603711N	Fleet Tactical Development	4	4,464	4,573	4,268	3,505 U
62	0603713N	Ocean Engineering Technology Development	4	11,672	13,747	5,166	5,267 U
63	0603721N	Environmental Protection	4	52,853	49,239	65,947	55,311 U
64	0603724N	Navy Energy Program	4	4,282	9,028	1,976	2,019 U
65	0603725N	Facilities Improvement	4	1,368	2,493	1,803	893 U
66	0603734N	CHALK CORAL	4	71,162	67,216	71,085	71,199 U
67	0603746N	RETRACT MAPLE	4	95,376	99,186	82,932	100,994 U
68	0603748N	LINK PLUMERIA	4	39,083	29,028	17,879	32,611 U
69	0603751N	RETRACT ELM	4	57,149	36,826	32,561	27,671 U
70	0603755N	Ship Self Defense	4	279,999	217,467	245,620	249,806 U
71	0603763N	Warfare Systems Architecture and Engineering	4	4,196	6,724		U
72	0603785N	Combat Systems Oceanographic Performance Assessment	4	19,594	19,637	16,042	15,411 U
73	0603787N	Special Processes	4	29,114	32,301	72,251	85,544 U
74	0603795N	Gun Weapon System Technology	4	25,200	19,075	12,028	27,601 U
75	0603800N	Joint Advanced Strike Technology - Dem/Vai	4	29,663	98,272	149,295	199,305 U

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Thousands of Dollars						
76	0604707N Space and Electronic Warfare (SEW) Architecture/ Engineering Support	4	4,299	4,946	5,742	5,666 U
	Demonstration and Validation		1,689,159	1,526,638	1,587,397	1,738,171
77	0603889N Counterdrug RDT&E Projects	5	1,907			U
78	0604212N ASW and Other Helo Development	5	80,091	88,296	91,803	93,146 U
79	0604214N AV-8B Aircraft - Eng Dev	5	12,831	10,617	11,309	6,362 U
80	0604215N Standards Development	5	13,366	15,332	10,567	23,011 U
81	0604217N S-3 Weapon System Improvement	5	4,087	13,586	12,872	5,404 U
82	0604218N Air/Ocean Equipment Engineering	5	4,926	5,374	6,182	6,426 U
83	0604221N P-3 Modernization Program	5	5,055	4,995	1,945	2,801 U
84	0604231N Tactical Command System	5	30,825	34,688	27,389	27,030 U
85	0604261N Acoustic Search Sensors	5	28,915	18,416	9,680	10,286 U
86	0604262N V-22A	5	9,793	452,721	762,548	580,929 U
87	0604264N Air Crew Systems Development	5	14,512	13,994	9,788	14,915 U
88	0604265N Air Launched Saturation System (ALSS)	5	1,930			U
89	0604270N EW Development	5	113,286	101,927	87,440	112,512 U
90	0604301N MK 92 Fire Control System Upgrade	5	1,051	1,711		U
91	0604307N AEGIS Combat System Engineering	5	102,632	90,907	105,683	98,360 U
92	0604312N Tri-Service Standoff Attack Missile	5	74,584	65,660		U
93	0604366N Standard Missile Improvements	5	62,272	16,796	8,572	1,980 U

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94	0604372N	New Threat Upgrade	5	1,610	1,316		U
95	0604373N	Airborne MCM	5	31,169	19,752	42,226	49,869 U
96	0604503N	SSN-688 and Trident Modernization	5	56,330	40,507	70,315	79,537 U
97	0604504N	Air Control	5	9,809	7,845	7,815	8,859 U
98	0604507N	Enhanced Modular Signal Processor	5	13,173	11,541	8,342	5,294 U
99	0604512N	Shipboard Aviation Systems	5	1,388	1,521	11,343	9,647 U
100	0604516N	Ship Survivability	5	10,168	8,484	4,907	4,284 U
101	0604518N	Combat Information Center Conversion	5	11,359	13,321	15,859	10,524 U
102	0604524N	Submarine Combat System	5	84,547	84,681	43,302	16,461 U
103	0604558N	New Design SSN	5	236,458	228,839	347,415	415,017 U
104	0604561N	SSN-21 Developments	5	73,742	65,161	83,503	97,805 U
105	0604562N	Submarine Tactical Warfare System	5	33,846	24,330	38,479	32,070 U
106	0604567N	Ship Contract Design/ Live Fire T&E	5	41,818	155,790	17,994	15,094 U
107	0604574N	Navy Tactical Computer Resources	5	14,867	18,164	5,499	8,256 U
108	0604601N	Mine Development	5	5,581	3,161	3,045	2,762 U
109	0604603N	Unguided Conventional Air-Launched Weapons	5	27,584	77,376	40,517	35,729 U
110	0604610N	Lightweight Torpedo Development	5	8,899	10,876	22,027	16,688 U
111	0604612M	Marine Corps Mine Countermeasures Systems - Eng Dev	5	2,659	420	263	2,914 U
112	0604618N	Joint Direct Attack Munition	5	8,394	25,860	37,832	36,576 U
113	0604654N	Joint Service Explosive Ordnance Development	5	6,196	6,242	5,408	5,221 U

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				FY 1994	FY 1995	FY 1996	FY 1997	c	
114	0604703N	Personnel, Training, Simulation, and Human Factor	5	1,057	1,117	1,043	1,040	U	
115	0604710N	Navy Energy Program	5	3,100	3,156	2,628	2,557	U	
116	0604719M	Marine Corps Command/Control/Communications Systems	5	21,156	10,250	15,380	12,275	U	
117	0604721N	Battle Group Passive Horizon Extension System	5	24,035	18,078	7,600	4,995	U	
118	0604727N	Joint Standoff Weapon Systems	5	83,354	115,998	81,837	89,344	U	
119	0604755N	Ship Self Defense	5	132,569	221,649	165,997	156,932	U	
120	0604761N	Intelligence Engineering	5	341	3,941			U	
121	0604771N	Medical Development	5	3,731	1,681	3,402	3,236	U	
122	0604777N	Navigation/ID System	5	75,966	67,120	56,472	61,847	U	
123	0604784N	Distributed Surveillance System	5	123,755	106,930	93,507	40,510	U	
		Engineering and Manufacturing Development		1,710,724	2,290,127	2,379,735	2,208,505		
124	0604256N	Threat Simulator Development	6	29,435	27,612	25,911	27,037	U	
125	0604258N	Target Systems Development	6	29,560	26,516	24,364	26,429	U	
126	0604759N	Major T&E Investment	6	51,862	51,810	46,586	43,968	U	
127	0605152N	Studies and Analysis Support - Navy	6	3,514	5,613	9,281	9,443	U	
128	0605154N	Center for Naval Analyses	6	43,260	43,348	44,429	44,505	U	
129	0605155N	Fleet Tactical Development	6	4,296	4,332	2,620	3,128	U	
130	0605502N	Small Business Innovative Research	6	78,040	112,754			U	
131	0605804N	Technical Information Services	6	14,330	4,698	2,027	1,946	U	

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Thousands of Dollars							
132	0605853N	Management, Technical & International Support	6	7,787	9,291	20,371	19,063 U
133	0605856N	Strategic Technical Support	6	3,610	2,221	3,584	3,621 U
134	0605861N	RD&E Science and Technology Management	6	63,776	62,743	61,001	59,571 U
135	0605862N	RD&E Instrumentation Modernization	6	41,978	8,591	8,278	8,089 U
136	0605863N	RD&E Ship and Aircraft Support	6	74,724	80,524	63,232	66,210 U
137	0605864N	Test and Evaluation Support	6	275,815	282,115	245,911	236,824 U
138	0605865N	Operational Test and Evaluation Capability	6	8,190	8,477	5,675	6,403 U
139	0605866N	Navy Space and Electronic Warfare (SEW) Support	6	4,006	3,321	3,638	3,647 U
140	0605867N	SEW Surveillance/Reconnaissance Support	6	13,473	11,541	12,134	12,341 U
141	0605871M	Marine Corps Tactical Exploitation of National Capabilities	6	4,809	758	2,984	3,063 U
142	0605873M	Marine Corps Program Wide Support	6	6,496	5,223	5,914	8,015 U
RD&E Management Support							
143	0101221N	Strategic Sub & Weapons System Support	7	30,311	28,811	39,511	47,076 U
144	0101224N	SSBN Security Technology Program	7	44,388	34,200	25,078	27,732 U
145	0101226N	Submarine Acoustic Warfare Development	7	16,529	535	7,937	10,883 U
146	0101402N	Navy Strategic Communications	7	30,325	73,065	20,416	U
147	0102427N	Naval Space Surveillance	7	698	805	752	724 U
148	0204136N	F/A-18 Squadrons	7	1,454,087	1,312,575	919,484	366,290 U
149	0204152N	E-2 Squadrons	7	18,081	51,279	52,965	71,338 U

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				FY 1994	FY 1995	FY 1996	FY 1997 c	e
150	0204163N	Fleet Telecommunications (Tactical)	7	32,582	35,931	24,032	20,815	U
151	0204229N	Tomahawk and Tomahawk Mission Planning Center (TMPC)	7	43,563	83,963	141,440	182,276	U
152	0204311N	Integrated Surveillance System	7	73,222	41,404	16,440	17,557	U
153	0204413N	Amphibious Tactical Support Units	7	2,929	4,272	4,364	2,022	U
154	0204571N	Consolidated Training Systems Development	7	38,114	58,139	48,058	38,466	U
155	0205601N	HARM Improvement	7			3,348	4,226	U
156	0205604N	Tactical Data Links	7	38,991	31,310	54,869	47,811	U
157	0205620N	Surface ASW Combat System Integration	7	22,710	15,679	9,955	6,051	U
158	0205632N	MK-48 ADCAP	7	26,669	26,954	22,214	13,824	U
159	0205633N	Aviation Improvements	7	72,423	63,294	66,875	61,858	U
160	0205658N	Navy Science Assistance Program	7	6,593	7,071	6,036	5,737	U
161	0205667N	F-14 Upgrade	7	15,004	40,646	44,490	37,125	U
162	0205675N	Operational Nuclear Power Systems	7	57,736	58,668	58,065	57,576	U
163	0206313M	Marine Corps Communications Systems	7	4,670	6,821	3,250	5,447	U
164	0206623M	Marine Corps Ground Combat/Supporting Arms System	7	22,224	21,118	13,386	12,432	U
165	0206624M	Marine Corps Combat Services Support	7	1,805	2,328	3,915	6,153	U
166	0206625M	Marine Corps Intelligence/Electronics Warfare Systems	7	18,114	8,183	5,131	4,961	U
167	0206626M	Marine Corps Command/Control/Communications Systems	7	38,558	16,803	19,793	22,533	U
168	0207161N	Tactical AIM Missiles	7			29,721	60,304	U
169	0207163N	Advanced Medium Range Air-to-Air Missile (AMRAAM)	7		15,648	4,491	4,915	U

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Department of the Navy  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test &amp; Eval Navy

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars	
170	0301327N Technical Reconnaissance and Surveillance	7						U
171	0303109N Satellite Communications	7	51,199	43,345	38,472	37,931		U
172	0303140N Information Systems Security Program	7	21,136	18,514	25,848	29,521		U
173	0304111N Special Activities	7						U
174	0305160N Defense Meteorological Satellite Program (DMSP)	7	13,371	13,524	18,416	1,231		U
175	0708011N Industrial Preparedness	7	140,629					U
	Operational Systems Development		2,766,330	2,658,094	2,268,432	1,716,520		
Total	Research Development Test & Eval Navy		8,191,391	8,694,768	8,204,530	7,716,920		

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Department of the Air Force  
FY 1996/1997 R D T & E Program

Exhibit R-1

## Summary

Date: FEB 1995

Thousands of Dollars

	FY 1994	FY 1995	FY 1996	FY 1997
<b>Summary Recap of Budget Activities</b>				
Basic Research	225,478	239,666	239,893	247,194
Exploratory Development	601,135	693,039	671,738	657,951
Advanced Development	470,003	565,686	494,714	486,175
Demonstration and Validation	235,340	420,117	431,391	527,629
Engineering and Manufacturing Development	3,896,329	4,571,484	4,640,696	4,379,472
RDT&E Management Support	924,445	796,747	846,379	846,151
Operational Systems Development	5,825,100	4,770,678	5,273,628	4,510,982
<b>Total Research Development Test &amp; Eval AF</b>	<b>12,177,830</b>	<b>12,057,417</b>	<b>12,598,439</b>	<b>11,655,554</b>
<b>Summary Recap of FVDP Programs</b>				
Strategic Forces	167,773	8,606	38,642	18,319
General Purpose Forces	1,215,071	1,307,169	1,217,144	977,369
Intelligence and Communications	4,285,755	3,274,946	3,741,055	3,208,963
Airlift/Sealift	22,037	23,006	18,096	5,067
Research and Development (FYDP Program 6)	6,352,730	7,404,256	7,549,734	7,411,706
Central Supply and Maintenance	124,935	30,392	23,089	22,497
Training Medical and Other	1,885	1,472	1,139	1,954
Administration and Assoc Activities	5,775	5,655	5,827	5,917
Support of Other Nations	1,869	1,915	3,713	3,762
<b>Total Research Development Test &amp; Eval AF</b>	<b>12,177,830</b>	<b>12,057,417</b>	<b>12,598,439</b>	<b>11,655,554</b>

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Department of the Air Force  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
1	0601101F In-House Laboratory Independent Research	1	716				U
2	0601102F Defense Research Sciences	1	224,762	239,666	239,893	247,194	U
	Basic Research						
3	0602101F Geophysics	2	35,064				U
4	0602102F Materials	2	69,366	68,779	74,534	73,321	U
5	0602201F Aerospace Flight Dynamics	2	59,033	59,715	66,268	64,254	U
6	0602202F Human Systems Technology	2	47,001	47,156	90,311	87,841	U
7	0602203F Aerospace Propulsion	2	72,408	73,014	78,592	77,901	U
8	0602204F Aerospace Avionics	2	65,578	66,601	74,256	73,561	U
9	0602205F Personnel, Training and Simulation	2	26,231	33,097			U
10	0602206F Civil Engineering and Environmental Quality	2	5,715	6,412			U
11	0602269F Hypersonic Technology Program	2		44,760	19,900	19,901	U
12	0602302F Rocket Propulsion and Astronautics Technology	2	50,435				U
13	0602601F Advanced Weapons	2	46,859	158,315	124,446	121,764	U
14	0602602F Conventional Munitions	2	34,140	43,627	44,954	43,830	U
15	0602702F Command Control and Communications	2	89,305	91,563	98,477	95,578	U
	Exploratory Development						
16	0603106F Logistics Systems Technology	3	601,135	693,039	671,738	657,951	
17	0603112F Advanced Materials for Weapon Systems	3	21,883	19,972	23,283	24,018	U

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Department of the Air Force  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars						
18	0603202F Aerospace Propulsion Subsystems Integration	3	26,452	29,408	29,818	29,149 U
19	0603203F Advanced Avionics for Aerospace Vehicles	3	25,077	27,983	32,131	31,013 U
20	0603205F Aerospace Vehicle Technology	3	12,860	6,643	10,793	10,150 U
21	0603211F Aerospace Structures	3	12,390	12,064	13,269	12,828 U
22	0603216F Aerospace Propulsion and Power Technology	3	35,901	36,579	41,779	41,222 U
23	0603227F Personnel, Training and Simulation Technology	3	8,120	8,889	8,930	7,695 U
24	0603231F Crew Systems and Personnel Protection Technology	3	12,609	17,332	18,953	19,081 U
25	0603238F Global Surveillance	3		1,975	2,483	2,582 U
26	0603245F Advanced Fighter Technology Integration	3	1,278	8,999	12,491	11,710 U
27	0603250F Lincoln Laboratory	3	17,195	11,915		U
28	0603253F Advanced Avionics Integration	3	3,421	16,765	20,421	19,763 U
29	0603269F National Aero Space Plane Technology Program	3	38,656			U
30	0603270F EW Technology	3	22,819	17,845	25,079	25,091 U
31	0603302F Space and Missile Rocket Propulsion	3	11,564	16,492	15,203	14,441 U
32	0603311F Ballistic Missile Technology	3	20,495	4,939	3,085	3,184 U
33	0603319F Airborne Laser Technology	3	1,881			U
34	0603401F Advanced Spacecraft Technology	3	19,900	48,291	32,627	36,443 U
35	0603410F Space Systems Environmental Interactions Technology	3	3,531	4,148	3,479	3,280 U
36	0603428F Space Subsystems Technology	3	7,845	8,000		U
37	0603601F Conventional Weapons Technology	3	16,567	30,652	31,637	30,278 U

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Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c
							Thousands of Dollars
38	0603605F	Advanced Radiation Technology	3	91,115	93,590	47,919	46,624 U
39	0603707F	Weather Systems Technology	3	4,317	4,983	4,577	4,378 U
40	0603723F	Civil and Environmental Engineering Technology	3	12,906	9,678	9,835	9,713 U
41	0603726F	C3I Subsystem Integration	3	8,547	10,814	12,008	10,971 U
42	0603728F	Advanced Computing Technology	3	9,012	9,013	11,005	10,076 U
43	0603771F	Industrial Preparedness Manufacturing Technology	3		83,311	53,332	51,841 U
44	0603789F	C3 Advanced Development	3	9,073	10,691	12,617	11,179 U
Advanced Development							
				470,003	565,686	494,714	486,175
45	0603111F	Meridian	4				U
46	0603260F	Intelligence Advanced Development	4	5,917	5,069	5,109	5,109 U
47	0603307F	Air Base Operability Advanced Development	4	3,645	2,282		U
48	0603319F	Airborne Laser Technology	4		19,677	19,954	19,954 U
49	0603402F	Space Test Program	4	41,473	66,619		U
50	0603430F	Advanced MILSATCOM	4		22,051	30,038	34,816 U
51	0603434F	National Polar-orbiting Operational Environmental Satellite System - Dem	4		7,504	23,861	41,550 U
52	0603438F	Satellite Systems Survivability	4	4,245	1,940		U
53	0603440F	Brilliant Eyes	4	136,919			U
54	0603441F	Space Based Infrared Architecture (SBIR) - Dem/Va	4		114,032	130,744	126,369 U
55	0603617F	Command, Control, and Communication Applications	4	9,107	5,309	6,437	7,902 U

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Department of the Air Force  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
56	0603714F	DoD Physical Security Equipment - Exterior	4	486				U
57	0603742F	Combat Identification Technology	4	27,507	13,057	4,571	4,425	U
58	0603800F	Joint Advanced Strike Technology - Dem/Val	4		85,258	151,186	199,831	U
59	0603801F	Special Programs	4					U
60	0603831F	Classified Programs	4					U
61	0603851F	Intercontinental Ballistic Missile - Dem/Val	4		42,617	20,265	30,638	U
62	0603852F	C-130J - Dem/Val	4		4,936			U
63	0603853F	Evolved Expendable Launch Vehicle (EELV) Program Dem/Val	4		29,766	39,226	57,035	U
		Demonstration and Validation		235,340	420,117	431,391	527,629	
64	0604201F	Aircraft Avionics Equipment Development	5	6,224	4,771	16,892	23,529	U
65	0604212F	Aircraft Equipment Development	5	5				U
66	0604218F	Engine Model Derivative Program (EMDP)	5	841	753	756	739	U
67	0604222F	Nuclear Weapons Support	5	5,365	5,609	4,822	4,855	U
68	0604226F	B-1B	5	48,432	73,313	173,838	150,620	U
69	0604227F	Training Systems Development	5	19,485	13,955	8,786	4,650	U
70	0604231F	C-17 Program	5	230,416	188,077	85,753	15,695	U
71	0604233F	Specialized Undergraduate Pilot Training	5	5,184	37,025	63,042	100,417	U
72	0604237F	Variable Stability In-Flight Simulator Test Aircraft	5	5,738	2,027			U
73	0604239F	F-22 EMD	5	2,058,804	2,325,292	2,138,718	1,957,067	U

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FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Program Line Element No	Item	Act	Thousands of Dollars				FY 1997 C e
			FY 1994	FY 1995	FY 1996	FY 1997 U	
74	0604240F B-2 Advanced Technology Bomber	5	776,323	384,080	623,616	446,225	U
75	0604243F Manpower, Personnel and Training Development	5	4,756	4,552	5,300	5,174	U
76	0604249F Night/Precision Attack	5	1,490	21,436	8,708	4,803	U
77	0604268F Aircraft Engine Component Improvement Program	5	100,142	94,356			U
78	0604270F EW Development	5	116,498	117,961	50,203	84,111	U
79	0604321F Combat Intelligence System -EMD	5	2,065	8,476	3,938	2,035	U
80	0604441F Space Based Infrared Architecture (SBIR) - EMD	5		102,136	152,219	198,982	U
81	0604479F Milstar LDR/MDR Satellite Communications	5		598,087	649,666	744,990	U
82	0604480F Global Positioning System Block IIF	5			19,699	38,901	U
83	0604600F Munitions Dispenser Development	5			53,254	58,914	U
84	0604601F Chemical/Biological Defense Equipment	5	9,628	7,470			U
85	0604602F Armament/Ordnance Development	5	11,116	18,648	8,075	3,815	U
86	0604604F Submunitions	5	3,738	28,367	4,953	5,105	U
87	0604609F R&M Maturation/Technology Insertion	5	18,434	8,735			U
88	0604617F Air Base Operability	5	10,739	5,518	9,692	3,064	U
89	0604618F Joint Direct Attack Munition	5	65,292	66,851	92,161	85,907	U
90	0604703F Aeromedical/Chemical Defense Systems	5	9,999	8,055	6,235	6,193	U
91	0604704F Common Support Equipment Development	5	4,551	1,588	1,167	613	U
92	0604706F Life Support Systems	5	10,749	4,969	4,035	3,983	U
93	0604707F Weather Systems - Eng Dev	5	9,054				U

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Department of the Air Force  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 e
							Thousands of Dollars
94	0604708F	Civil, Fire, Environmental, Shelter Engineering	5	4,382	3,146	2,737	2,835 U
95	0604711F	Systems Survivability (Nuclear Effects)	5	3,469		37	38 U
96	0604727F	Joint Standoff Weapons Systems	5	23,143	55,355	44,025	19,562 U
97	0604733F	Surface Defense Suppression	5	1,861	941		U
98	0604735F	Combat Training Ranges	5	15,446	13,947	10,418	16,098 U
99	0604740F	Computer Resource Technology Transition (CRTC)	5	13,672	20,855	2,166	2,048 U
100	0604750F	Intelligence Equipment	5	2,753	2,603	1,294	1,268 U
101	0604754F	Joint Tactical Information Distribution System (JTIDS)	5	13,066	11,190	10,146	9,594 U
102	0604770F	Joint Surveillance/Target Attack Radar System (JSTARS)	5	278,807	172,260	169,702	200,382 U
103	0604779F	Joint Interoperability of Tactical Command & Control Systems (JINTACCS)	5	4,662	1,956	6,356	6,261 U
104	0604851F	Intercontinental Ballistic Missile - EMD	5		136,469	192,719	162,213 U
105	0303606F	UHF Satellite Communications	5		20,655	15,568	8,786 U
Engineering and Manufacturing Development				3,896,329	4,571,484	4,640,696	4,379,472
106	0603402F	Space Test Program	6			57,710	36,120 U
107	0604256F	Threat Simulator Development	6	41,152	40,417	53,377	48,171 U
108	0604258F	Target Systems Development	6	9,882	7,488	5,362	5,234 U
109	0604759F	Major T&E Investment	6	47,234	51,056	37,879	36,229 U
110	0605101F	RAND Project Air Force	6	24,000	24,039	25,924	26,571 U
111	0605306F	Ranch Hand II Epidemiology Study	6	3,686	3,156	3,139	9,709 U

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FY 1996/1997 R D T & E Program

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Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	e
Thousands of Dollars							c
112	0605502F Small Business Innovative Research	6	119,550				U
113	0605708F Navigation/Radar/Sled Track Test Support	6	29,347	29,554			U
114	0605712F Initial Operational Test & Evaluation	6	27,056	33,004	24,506	26,921	U
115	0605807F Test and Evaluation Support	6	379,871	365,365	454,067	458,335	U
116	0605808F Development Planning	6	6,724	5,870	6,745	6,764	U
117	0605853F Environmental Conservation	6			14,169	14,070	U
118	0605854F Pollution Prevention	6			14,046	21,361	U
119	0605856F Environmental Compliance	6					U
120	0605860F Rocket Systems Launch Program (RSLP)	6	39,355	42,371	26,423	26,229	U
121	0605863F RDT&E Aircraft Support	6	37,436	34,476	5,949	6,126	U
122	0605876F Minor Construction (RPM) - RDT&E	6	4,245	3,243			U
123	0605878F Maintenance and Repair (RPM) - RDT&E	6	45,019	51,183			U
124	0605896F Base Operations - RDT&E	6	109,888	105,525	117,083	124,311	U
	RDT&E Management Support						
125	0603107F Technical Evaluation System	7	924,445	796,747	846,379	846,151	U
126	0603110F Special Evaluation System	7					U
127	0604268F Aircraft Engine Component Improvement Program	7			103,700	105,600	U
128	0101113F B-52 Squadrons	7	6,167		16,505	7,457	U
129	0101120F Advanced Cruise Missile	7	20,978		7,060		U

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Department of the Air Force  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
130	0101213F Minuteman Squadrons	7	127,916				U
131	0102325F Joint Surveillance System	7	3,024	2,719	4,711	4,400	U
132	0102411F North Atlantic Defense System	7	7,159	3,852	9,351	5,532	U
133	0102412F North Warning System (NWS)	7	2,529	2,035	1,015	930	U
134	0207129F F-111 Squadrons	7	9,638	4,667	597		U
135	0207133F F-16 Squadrons	7	59,715	137,129	175,600	152,785	U
136	0207134F F-15E Squadrons	7	63,568	107,377	171,337	130,061	U
137	0207136F Manned Destructive Suppression	7	4,284	37,014	2,908		U
138	0207141F F-117A Squadrons	7	6,122		3,881	12,478	U
139	0207160F Tri-Service Standoff Attack Missile	7	263,681	134,083			U
140	0207161F Tactical AIM Missiles	7		44	20,082	31,088	U
141	0207163F Advanced Medium Range Air-to-Air Missile (AMRAAM)	7	65,807	69,943	42,311	49,232	U
142	0207217F Follow-On Tactical Reconnaissance System	7	6,318				U
143	0207247F AF TENCAP	7	14,410	20,464	21,966	21,079	U
144	0207248F Special Evaluation Program	7	118,804	116,970	87,184	51,530	U
145	0207411F Overseas Air Weapon Control System	7	14,970				U
146	0207412F Theater Air Control Systems	7	27,671	6,922	290	651	U
147	0207417F Airborne Warning and Control System (AWACS)	7	83,233	83,980	96,696	38,753	U
148	0207419F Tactical Airborne Command and Control Systems	7		2,676	2,093	358	U
149	0207422F Deployable C3 Systems	7		2,581			U

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Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Line No	Program Element Number	Item	Act	Thousands of Dollars				S e c
				FY 1994	FY 1995	FY 1996	FY 1997	
150	0207423F	Advanced Communications Systems	7	369	454	1,934	1,908	U
151	0207424F	Evaluation and Analysis Program	7	73,688	72,084	77,688	71,504	U
152	0207431F	Combat Air Intelligence System Activities	7					U
153	0207433F	Advanced Program Technology	7	123,596	161,508	157,397	144,341	U
154	0207438F	Theater Battle Management (TBM) C4I	7	12,864	29,097	24,813	25,748	U
155	0207579F	Advanced Systems Improvements	7	121,856	119,531	105,548	27,961	U
156	0207590F	Seek Eagle	7	14,719	15,808	17,390	18,059	U
157	0207591F	Advanced Program Evaluation	7	89,682	128,481	140,571	130,461	U
158	0207601F	USAF Wargaming and Simulation	7	10,829	13,593	19,762	25,624	U
159	0208006F	Mission Planning Systems	7	23,546	14,170	20,585	19,386	U
160	0208021F	Electronic Combat Support	7					U
161	0208060F	Theater Missile Defenses	7		27,004	25,102	22,986	U
162	0301310F	Foreign Technology Division	7					U
163	0301313F	Defense Dissemination Program	7					U
164	0301314F	IR/EO/DEW Processing and Exploitation	7					U
165	0301315F	Missile and Space Technical Collection	7					U
166	0301317F	SENIOR YEAR Operations	7					U
167	0301324F	FOREST GREEN	7					U
168	0303110F	Defense Satellite Communications System	7	19,857	14,497	32,555	26,693	U
169	0303131F	Minimum Essential Emergency Communications Network (MEECN)	7	3,885	33,803	15,777	12,937	U

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FY 1996/1997 R D T & E Program

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Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Line Element No	Program Number	Item	Act	Thousands of Dollars					S e
				FY 1994	FY 1995	FY 1996	FY 1997 c		
170	0303140F	Information Systems Security Program	7	16,131	11,603	11,261	8,980	U	
171	0303144F	Electromagnetic Compatibility Analysis Center (ECAC)	7	9,767	9,163			U	
172	0303601F	Milstar Satellite Communications System	7	904,027	18,050	42,591	8,852	U	
173	0303605F	Satellite Communications Terminals	7	1,169	1,739			U	
174	0304111F	Special Activities	7					U	
175	0305110F	Satellite Control Network	7	78,884	80,833	89,717	95,435	U	
176	0305111F	Weather Service	7		20,710	5,771	5,308	U	
177	0305114F	Air Traffic Control, Approach, and Landing System (ATCALS)	7	8,427	7,103	3,968	4,007	U	
178	0305119F	Medium Launch Vehicles	7	69,545	20,535	21,898	16,323	U	
179	0305124F	Special Applications Program	7					U	
180	0305128F	Security and Investigative Activities	7			299	299	U	
181	0305137F	National Airspace System (NAS) Plan	7	14,441	30,126	13,759	17,238	U	
182	0305138F	Upper Stage Space Vehicles	7	4,054	3,624	3,554	3,303	U	
183	0305142F	Applied Technology and Integration	7					U	
184	0305144F	Titan Space Launch Vehicles	7	263,540	150,889	140,514	148,656	U	
185	0305145F	Arms Control Implementation	7	8,457	3,417	998	1,728	U	
186	0305158F	CONSTANT SOURCE	7	3,076	3,191	3,089	3,054	U	
187	0305160F	Defense Meteorological Satellite Program (DMSP)	7	24,265	20,537	21,464	19,407	U	
188	0305164F	NAVSTAR Global Positioning System (User Equipment	7	15,976	9,621	17,371	14,891	U	
189	0305165F	NAVSTAR Global Positioning System (Space and Control Segments)	7	36,825	36,027	26,921	31,434	U	

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Department of the Air Force  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars	
190	0305172F	Combined Advanced Applications	7						U
191	0305181F	Western Space Launch Facility (WSLF)	7	3,345					U
192	0305182F	Eastern Space Launch Facility (ESLF)	7	49,852	42,244	52,272	37,893		U
193	0305887F	Electronic Combat Intelligence Support	7	1,962	1,830				U
194	0305892F	Special Analysis Activities	7						U
195	0305905F	Improved Space Based TW/AA	7	105,703					U
196	0305906F	NCMC - TW/AA System	7	132,576	129,038	60,897	27,895		U
197	0305910F	SPACETRACK	7	55,086	53,824	35,583	12,139		U
198	0305911F	Defense Support Program	7	46,898	66,116	43,672	38,819		U
199	0305913F	NUDET Detection System	7	10,331	10,030	16,277	21,283		U
200	0401119F	C-5 Airlift Squadrons	7				793		U
201	0401218F	KC-135s	7	11,540	23,006	12,727	793		U
202	0401840F	AMC Command and Control System	7	10,497					U
203	0404102F	Aerospace Rescue and Recovery	7			5,369	3,481		U
204	0701111F	Supply Depot Operations (Non-IF)	7	1,863					U
205	0702207F	Depot Maintenance (Non-IF)	7	1,792	2,076	1,464	1,495		U
206	0708011F	Industrial Preparedness	7	72,435					U
207	0708012F	Logistics Support Activities	7	6,203	5,742				U
208	0708026F	Productivity, Reliability, Availability, Maintain. Prog Ofc (PRAMPO)	7	17,946	6,732	15,719	15,340		U
209	0708054F	Pollution Prevention	7	24,696	15,842				U

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Department of the Air Force  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars
210	0708611F Support Systems Development	7			5,906	5,662	U
211	0804734F Cryptologic/SIGINT-Related Skill Training	7	1,885	1,472	1,139	1,954	U
212	0901218F Civilian Compensation Program	7	5,775	5,655	5,827	5,917	U
213	1001004F International Activities	7	1,869	1,915	3,713	3,762	U
	Operational Systems Development		5,825,100	4,770,678	5,273,628	4,510,982	
Total	Research Development Test & Eval AF		12,177,830	12,057,417	12,598,439	11,655,554	

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## UNCLASSIFIED

Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

## Summary

Date: FEB 1995

Thousands of Dollars

	FY 1994	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities				
Basic Research	339,786	345,526	367,404	388,571
Exploratory Development	1,022,614	1,231,925	1,231,456	1,307,491
Advanced Development	4,804,229	2,443,778	2,313,432	2,291,790
Demonstration and Validation	231,415	1,927,513	1,733,071	1,247,225
Engineering and Manufacturing Development	47,914	450,886	679,358	1,197,915
RDT&E Management Support	213,225	437,273	416,177	447,855
Operational Systems Development	2,021,312	2,188,552	2,061,983	1,869,315
Total Research Development Test & Eval Defwide	8,680,495	9,025,453	8,802,881	8,750,162

Summary Recap of FYDP Programs				
General Purpose Forces	35,355	33,675	25,538	24,969
Intelligence and Communications	1,764,761	1,978,293	1,931,361	1,776,728
Research and Development (FYDP Program 6)	6,577,428	6,812,853	6,705,676	6,821,998
Central Supply and Maintenance	21,850			
Special Operations Forces	281,101	200,632	140,306	126,467
Total Research Development Test & Eval Defwide	8,680,495	9,025,453	8,802,881	8,750,162

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Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

## Summary

Date: FEB 1995

Thousands of Dollars

	FY 1994	FY 1995	FY 1996	FY 1997
Summary Recap of Defensewide				
Defense Mapping Agency	67,600	76,311	80,131	83,932
Special Operations Command	281,101	200,632	140,306	126,467
Chemical and Biological Defense Program		26,900	243,017	268,688
Ballistic Missile Defense Organization	2,605,089	2,467,593	2,442,199	2,483,619
Office of Secretary/Defense	1,162,853	1,923,214	1,602,059	1,592,078
Advanced Research Projects Agcy	2,648,563	2,731,867	2,639,234	2,572,339
National Security Agency				
Defense Nuclear Agency	274,929	255,001	252,974	262,649
Defense Support Project Office	381,036	46,715	59,183	59,588
Joint Chiefs of Staff	10,693	4,159	1,784	1,485
Defense Information Systems Agency	88,634	82,177	66,356	64,449
Defense Intelligence Agency				
Central Imagery Office				
Defense Logistics Agency	37,131	77,084	81,548	84,658
Defense Investigative Service				
Total Research Development Test & Eval Defwide	8,680,495	9,025,453	8,802,881	8,750,162

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## UNCLASSIFIED

Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 <sup>e</sup>	Thousands of Dollars
1	0601101D In-House Laboratory Independent Research	1	2,257	2,331	3,551	2,265	U
2	0601101E Defense Research Sciences	1	85,889	87,552	89,732	92,521	U
3	0601103D University Research Initiatives	1	240,155	249,734	236,165	247,047	U
4	0601110D Focused Research Initiatives	1	11,485	5,909	14,009	21,062	U
5	0601384BP Chemical and Biological Defense Program	1			23,947	25,676	U
<b>Basic Research</b>							
6	0602160D Counterproliferation Support	2	339,786	345,526	367,404	388,571	U
7	0602173C Support Technologies/Follow-on Technologies Exploratory Development	2		81,406	93,308	105,313	U
8	0602227D Medical Free Electron Laser	2	20,389	23,385	13,258	24,661	U
9	0602228D Historically Black Colleges and Universities (HBCU) Science and Engineer	2		22,540	14,779	15,095	U
10	0602234D Lincoln Laboratory Research Program	2			19,903	21,099	U
11	0602301E Computing Systems and Communications Technology	2	321,216	388,991	403,875	384,777	U
12	0602384BP Chemical and Biological Defense Program	2		10,000	60,665	55,270	U
13	0602702E Tactical Technology	2	90,053	121,667	113,168	124,649	U
14	0602708E Integrated Command and Control Technology	2	84,490	81,554	48,000	67,603	U
15	0602712E Materials and Electronics Technology	2	261,174	274,114	226,045	269,658	U
16	0602715H Defense Nuclear Agency	2	234,226	218,938	219,003	230,724	U
17	0602787D Medical Technology	2	9,265	7,643	7,501	6,532	U
18	0305108K Command and Control Research	2	1,801	1,687	1,999	2,110	U
<b>Exploratory Development</b>							
			1,022,614	1,231,925	1,231,456	1,307,491	

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Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defensewide

Date: FEB 1995

Program Line Element No	Item	Act	Thousands of Dollars				FY 1997 c
			FY 1994	FY 1995	FY 1996	FY 1997 e	
19 0603002D	Medical Advanced Technology	3	11,027	4,046	4,088	3,536	U
20 0603104D	Explosives Demilitarization Technology	3	17,946	4,009			U
21 0603122D	Counterterror Technical Support	3	5,905	8,228	12,044	6,033	U
22 0603160D	Counterproliferation Support - Adv Dev	3		25,600	55,331	56,928	U
23 0603173C	Support Technologies/Follow-on Technologies - Advanced Technology Devel	3		134,628	79,387	87,823	U
24 0603215C	Limited Defense System	3	562,331				U
25 0603216C	Theater Missile Defense Advanced Development	3	1,476,307				U
26 0603218C	Research and Support Activities	3	524,354				U
27 0603225D	Joint DoD-DoE Munitions Technology Development	3	17,160	24,143	16,799	16,989	U
28 0603226E	Experimental Evaluation of Major Innovative Technologies	3	599,914	671,792	618,005	595,873	U
29 0603384BP	Chemical and Biological Defense Program - Advanced Development	3			25,684	36,644	U
30 0603569E	Advanced Submarine Technology	3	43,839	32,381	7,473	9,942	U
31 0603570D	Defense Laboratory Partnership Program	3		70,550	16,106	25,540	U
32 0603570E	Defense Reinvestment	3	495,502	443,196	500,000	400,000	U
33 0603704D	Special Technical Support	3	18,735	10,061	18,187	17,576	U
34 0603711H	Verification Technology Demonstration	3	40,703	36,063	33,971	31,925	U
35 0603716D	Strategic Environmental Research Program	3	158,457	55,137	58,435	95,371	U
36 0603724D	Biological Defense - Advanced Development	3	9,572	52,305			U
37 0603725D	Computers & Communications to Reduce Medical Cost	3	2,917				U
38 0603726D	Joint Technology Insertion Program	3			4,976	4,976	U

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Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Line No	Program Element Number	Item	Act	Thousands of Dollars				FY 1997 c e
				FY 1994	FY 1995	FY 1996	FY 1997 c e	
39	0603736D	CALS Initiative	3	8,461	13,886	6,545	6,461	U
40	0603738D	Cooperative DoD/VA Medical Research	3	19,446	44,533			U
41	0603739E	Advanced Electronics Technologies	3	377,801	409,763	419,863	443,458	U
42	0603744E	Advanced Simulation	3	27,107	29,537	5,799	14,614	U
43	0603745E	Semiconductor Manufacturing Technology	3	89,000	89,227	89,554		U
44	0603746E	Maritime Technology	3	38,750	52,000	49,657	49,708	U
45	0603747E	Electric Vehicles	3	46,250	15,000			U
46	0603748E	Natural Gas Vehicles	3	15,000				U
47	0603749E	Earth Conservancy	3	10,000				U
48	0603750D	Advanced Concept Technology Demonstrations	3		31,741	63,251	80,734	U
49	0603755D	High Performance Computing Modernization Program	3	44,119	65,059	89,682	116,878	U
50	0603756D	Consolidated DoD Software Initiative	3	22,036	24,492			U
51	0603771S	Industrial Preparedness Manufacturing Technology	3		19,650	7,007	6,967	U
52	0603800E	Joint Advanced Strike Technology - Dem/Val	3			30,675	80,925	U
53	0603832D	Joint Wargaming Simulation Management Office	3	72,467	54,390	77,690	79,750	U
54	0303132G	Global Grid Communications	3					U
55	0304211G	National Activities	3					U
56	0305166G	Special Development	3					U
57	0305889E	Counterdrug Intelligence Support	3	30,123				U
Advanced Development				4,804,229	2,443,778	2,313,432	2,291,790	

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Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars
58	0603228D	Physical Security Equipment	4	20,091	27,665	20,092	21,615	U
59	0603708D	Integrated Diagnostics	4	10,046	11,483	10,266	10,244	U
60	0603709D	Joint Robotics Program	4	26,294	23,115	17,382	17,941	U
61	0603714D	Advanced Sensor Applications Program	4	38,521	31,698	25,923	26,641	U
62	0603715D	AIM-9 Consolidated Program	4	23,951	48,681			U
63	0603734J	Island Sun Support	4		2,770	1,584	1,285	U
64	0603790D	NATO Research and Development	4	46,380	34,832	45,642	55,201	U
65	0603851D	Environmental Security Technical Certification Program	4		43,923	14,939	14,884	U
66	0603861C	Theater High-Altitude Area Defense System - TMD - Dem/Val	4		452,321	576,327	72,188	U
67	0603862C	Theater Missile Defense Ground Based Radar (GBR-T) - Dem/Val	4		171,828			U
68	0603863C	HAWK Upgrades Theater Missile Defense Acquisition - Dem/Val	4		25,984	23,188		U
69	0603864C	Battle Management and C4I for TMD Acquisition - Dem/Val	4		19,989	24,231	24,425	U
70	0603867C	Navy Lower Tier TMD Acquisition - Dem/Val	4		139,676			U
71	0603868C	Navy Upper Tier TMD - Dem/Val	4		68,450	30,442	33,400	U
72	0603869C	CORPS Surface-to-Air Missile - TMD - Dem/Val	4		14,971	30,442	33,400	U
73	0603870C	Boost Phase Intercept Theater Missile Defense Acquisition - Dem/Val	4		40,000	49,061	44,300	U
74	0603871C	National Missile Defense - Dem/Val	4		389,988	370,621	399,038	U
75	0603872C	Other Theater Missile Defense/Follow-on TMD Activities Acquisition - De	4		380,139	460,470	449,908	U
76	0603884BP	Chemical and Biological Defense Program - Dem/Val	4			32,461	42,755	U
77	0604225C	Theater Missile Defense Acquisition EMD Programs	4	42,097				U

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Defensewide  
FY 1996/1997 R D T & E Program

Appropriation: 0400 D Research Development Test & Eval Defwide

Exhibit R-1

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars
78	0604705D Mobile Offshore Base Analysis	4	16,529				U
79	0201135J CINC C2 Initiatives	4	7,506				U
	Demonstration and Validation		231,415	1,927,513	1,733,071	1,247,225	
80	0604160D Counterproliferation Support - EMD	5		2,000	2,786	2,787	U
81	0604384BP Chemical and Biological Defense Program - EMD	5		15,200	95,324	102,938	U
82	0604771D Joint Tactical Information Distribution System (JTIDS)	5	47,500	83,469	62,068	46,784	U
83	0604861C Theater High-Altitude Area Defense System - TMD - EMD	5				664,000	U
84	0604864C Battle Management and C4I for TMD Acquisition - EMD	5		534	14,301	17,976	U
85	0604865C Patriot PAC-3 Theater Missile Defense Acquisition - EMD	5		275,683	247,921	160,070	U
86	0604866C ERINT/Patriot PAC-3 Risk Reduction - TMD - EMD	5		74,000	19,485	9,760	U
87	0604867C Navy Lower Tier TMD Acquisition - EMD	5			237,473	193,600	U
88	0604889K Counterdrug Engineering and Manufacturing Development Projects	5	414				U
	Engineering and Manufacturing Development		47,914	450,886	679,358	1,197,915	
89	0603710D Classified Program - C3I	6	4,494	8,002	2,510	2,430	U
90	0603712S Generic Logistics R&D Technology Demonstrations	6			16,800	18,600	U
91	0605104D Technical Studies, Support and Analysis	6	25,079	24,372	39,302	39,019	U
92	0605110D Technical Support to USD(A)--Critical Technology	6	1,711	2,630	2,651	2,884	U
93	0605114E BLACK LIGHT	6	4,875	4,875	4,745	4,730	U
94	0605117D Foreign Material Acquisition and Exploitation	6	98,583	103,731	46,338	46,088	U

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Defensewide  
FY 1996/1997 R D T & E Program  
Appropriation: 0400 D Research Development Test & Eval Defwide

Exhibit R-1

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars
95	0605129D	Technical Assistance	6			4,927	5,031	U
96	0605160D	Counterproliferation Support	6		4,831	6,468	6,967	U
97	0605218C	Ballistic Missile Defense RDT&E Program Management and Support	6		197,996	185,542	188,418	U
98	0605384BP	Chemical and Biological Defense Program	6		1,700	4,936	5,405	U
99	0605502D	Small Business Innovative Research	6	12,297				U
100	0605790D	Small Business Innovative Research Administration	6		1,484	1,574	1,711	U
101	0605798S	Defense Support Activities	6	15,281	14,679	14,752	14,410	U
102	0605801S	Defense Technical Information Center	6		42,755	42,989	44,681	U
103	0605898E	Management Headquarters (Research and Development)	6	27,580	30,218	32,643	33,881	U
104	0305154D	Defense Airborne Reconnaissance Program	6			10,000	33,600	U
105	0305889D	Counterdrug Intelligence Support	6	1,475				U
106	0708011S	Industrial Preparedness	6	21,850				U
		RDT&E Management Support		213,225	437,273	416,177	447,855	
107	0201135J	CINC C2 Initiatives	7	1,192	1,389	200	200	U
108	0208045K	C3 Interoperability (Joint Tactical C3 Agency)	7	26,657	32,286	25,338	24,769	U
109	0301011G	Cryptologic Activities	7					U
110	0301301L	General Defense Intelligence Program	7					U
111	0302016K	National Military Command System-Wide Support	7	3,972	3,623	2,153	2,144	U
112	0302019K	Joint/Defense Information Systems Engineering and Integration	7	10,601	9,725	5,138	4,954	U

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Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars
113	0303126K Long-Haul Communications (DCS)	7	38,500	27,629	20,538	19,368	U
114	0303127K Support of the National Communications System	7	3,864	4,229	4,062	4,042	U
115	0303131K Minimum Essential Emergency Communications Network (MEECN)	7	2,825	2,998	2,269	2,179	U
116	0303140D Information Systems Security Program	7			23,884	11,027	U
117	0303140G Information Systems Security Program	7					U
118	0303153K Joint Spectrum Center	7			4,859	4,883	U
119	0303154J WWMCCS ADP Modernization	7	1,995				U
120	0305098L Defense Support Activity - IPSC	7					U
121	0305106LC Consolidated Imagery Activities	7					U
122	0305107LC Tactical Imagery Activities	7					U
123	0305127V Foreign Counterintelligence Activities	7					U
124	0305139B DMA Mapping, Charting, and Geodesy (MC&G) Production System Improvement	7	56,792	56,763	80,131	83,932	U
125	0305141D Joint Remotely Piloted Vehicles Program	7	81,814				U
126	0305154D Defense Airborne Reconnaissance Program	7		655,269	515,148	391,246	U
127	0305154G Defense Airborne Reconnaissance Program	7					U
128	0305154I Defense Airborne Reconnaissance Program	7	334,519				U
129	0305157I Land Remote Sensing Satellite System	7	34,506				U
130	0305159B Defense Reconnaissance Support Activities	7	10,808	19,548			U
131	0305159G Defense Reconnaissance Support Activities	7					U
132	0305159I Defense Reconnaissance Support Activities	7	12,011	46,715	59,183	59,588	U

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Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars
133	0305190D C3I Intelligence Programs	7	16,289	16,307	7,907	7,445	U
134	0305884L Intelligence Planning and Review Activities	7					U
135	0305885G Tactical Cryptologic Activities	7					U
136	0305889G Counterdrug Intelligence Support	7					U
137	0305898L Management Headquarters (Auxiliary Forces)	7					U
138	11604018B Special Operations Technology Development	7	6,744	5,511	4,090	6,554	U
139	11604028B Special Operations Advanced Technology Development	7	27,098	13,462	13,288	14,247	U
140	11604048B Special Operations Tactical Systems Development	7	217,750	156,629	101,602	80,789	U
141	11604058B Special Operations Intelligence Systems Development	7	6,686	2,932	2,901	3,443	U
142	11604078B SOF Medical Technology Development	7	1,310	1,782	1,891	2,377	U
143	11604088B SOF Operational Enhancements	7	21,513	20,316	16,534	19,057	U
Operational Systems Development							
			2,021,312	2,188,552	2,061,983	1,869,315	
Total Research Development Test & Eval Defwide							
			8,680,495	9,025,453	8,802,881	8,750,162	

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## UNCLASSIFIED

Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

## Summary

Date: FEB 1995

Thousands of Dollars

	FY 1994	FY 1995	FY 1996	FY 1997
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## Summary Recap of Budget Activities

RDT&amp;E Management Support

231,757

233,142

259,341

267,029

Total Director of Test &amp; Eval Defense

231,757

233,142

259,341

267,029

## Summary Recap of FYDP Programs

Research and Development (FYDP Program 6)

231,757

233,142

259,341

267,029

Total Director of Test &amp; Eval Defense

231,757

233,142

259,341

267,029

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Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0450 D Director of Test &amp; Eval Defense

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars	Se
1	0604940D Central Test and Evaluation Investment Development (CTEIP)	6	100,523	101,606	119,714	127,345	U	
2	0605130D Foreign Comparative Testing	6	32,913	39,741	34,062	33,853	U	
3	0605131D Live Fire Testing	6	7,499				U	
4	0605804D Development Test and Evaluation	6	90,822	91,795	105,565	105,831	U	
	RDT&E Management Support		231,757	233,142	259,341	267,029		
	Total Director of Test & Eval Defense		231,757	233,142	259,341	267,029		

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## UNCLASSIFIED

Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

## Summary

Date: FEB 1995

Thousands of Dollars

	FY 1994	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities				
RDT&E Management Support	11,450	22,962	22,587	22,978
Total Director of Operational Test & Evaluation	11,450	22,962	22,587	22,978
Summary Recap of FYDP Programs				
Research and Development (FYDP Program 6)	11,450	22,962	22,587	22,978
Total Director of Operational Test & Evaluation	11,450	22,962	22,587	22,978

## Summary Recap of Budget Activities

## RDT&amp;E Management Support

## Total Director of Operational Test &amp; Evaluation

## Summary Recap of FYDP Programs

## Research and Development (FYDP Program 6)

## Total Director of Operational Test &amp; Evaluation

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Defensewide  
FY 1996/1997 R D T & E Program

Exhibit R-1

Date: FEB 1995

Appropriation: 0460 D Director of Operational Test &amp; Evaluation

Line No	Program Element Number	Item	Act	Thousands of Dollars					e c
				FY 1994	FY 1995	FY 1996	FY 1997		
1	0605118D	Operational Test and Evaluation	6	11,450	12,501	12,183	12,576	U	
2	0605131D	Live Fire Testing	6		10,461	10,404	10,402	U	
		RT&E Management Support		11,450	22,962	22,587	22,978		
		Total Director of Operational Test & Evaluation		11,450	22,962	22,587	22,978		

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## UNCLASSIFIED

Defense Mapping Agency  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Se
Thousands of Dollars							C
122	0305139B DMA Mapping, Charting, and Geodesy (MC&G)	7	56,792	56,763	80,131	83,932	U
128	0305159B Production System Improvement	7	10,808	19,548			
	Defense Reconnaissance Support Activities						
	Operational Systems Development		67,600	76,311	80,131	83,932	
Total	Defense Mapping Agency		67,600	76,311	80,131	83,932	

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Special Operations Command  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 <sup>e</sup> C
			Thousands of Dollars				
136	1160401BB	Special Operations Technology Development	7	6,744	5,511	4,090	6,554 U
137	1160402BB	Special Operations Advanced Technology Development	7	27,098	13,462	13,288	14,247 U
138	1160404BB	Special Operations Tactical Systems Development	7	217,750	156,629	101,602	80,789 U
139	1160405BB	Special Operations Intelligence Systems Development	7	6,686	2,932	2,901	3,443 U
140	1160407BB	SOF Medical Technology Development	7	1,310	1,782	1,891	2,377 U
141	1160408BB	SOF Operational Enhancements	7	21,513	20,316	16,534	19,057 U
Operational Systems Development				281,101	200,632	140,306	126,467
Total Special Operations Command				281,101	200,632	140,306	126,467

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## UNCLASSIFIED

Chemical and Biological Defense Program  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
5	06013848P Chemical and Biological Defense Program	1			23,947	25,676 U	
	Basic Research				23,947	25,676	
12	06023848P Chemical and Biological Defense Program	2		10,000	60,665	55,270 U	
	Exploratory Development			10,000	60,665	55,270	
29	06033848P Chemical and Biological Defense Program - Advanced Development	3			25,684	36,644 U	
	Advanced Development				25,684	36,644	
74	06038848P Chemical and Biological Defense Program - Dem/Val	4			32,461	42,755 U	
	Demonstration and Validation				32,461	42,755	
79	06043848P Chemical and Biological Defense Program - EMD	5		15,200	95,324	102,938 U	
	Engineering and Manufacturing Development			15,200	95,324	102,938	
96	06053848P Chemical and Biological Defense Program	6		1,700	4,936	5,405 U	
	RD&E Management Support			1,700	4,936	5,405	
Total	Chemical and Biological Defense Program			26,900	243,017	268,688	

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## UNCLASSIFIED

Ballistic Missile Defense Organization  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Line Element No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars
7	0602173C	Support Technologies/Follow-on Technologies Exploratory Development	2		81,406	93,308	105,313	U
		Exploratory Development						
23	0603173C	Support Technologies/Follow-on Technologies - Advanced Technology Devel	3		81,406	93,308	105,313	U
24	0603215C	Limited Defense System	3	562,331				U
25	0603216C	Theater Missile Defense Advanced Development	3	1,476,307	134,628	79,387	87,823	U
26	0603218C	Research and Support Activities	3	524,354				U
		Advanced Development						
64	0603861C	Theater High-Altitude Area Defense System - TMD - Dem/Val	4	2,562,992	134,628	79,387	87,823	U
65	0603862C	Theater Missile Defense Ground Based Radar (GBR- T) - Dem/Val	4		171,828			U
66	0603863C	HAWK Upgrades Theater Missile Defense Acquisition - Dem/Val	4		25,984	23,188		U
67	0603864C	Battle Management and C4I for TMD Acquisition - Dem/Val	4		19,989	24,231	24,425	U
68	0603867C	Navy Lower Tier TMD Acquisition - Dem/Val	4		139,676			U
69	0603868C	Navy Upper Tier TMD - Dem/Val	4		68,450	30,442	33,400	U
70	0603869C	CORPS Surface-to-Air Missile - TMD - Dem/Val	4		14,971	30,442	33,400	U
71	0603870C	Boost Phase Intercept Theater Missile Defense Acquisition - Dem/Val	4		40,000	49,061	44,300	U
72	0603871C	National Missile Defense - Dem/Val	4		389,988	370,621	399,038	U
73	0603872C	Other Theater Missile Defense/Follow-on TMD Activities Acquisition - De	4		380,139	460,470	449,908	U
75	0604225C	Theater Missile Defense Acquisition EMD Programs	4	42,097				U
		Demonstration and Validation						
				42,097	1,703,346	1,564,782	1,056,659	

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## UNCLASSIFIED

Ballistic Missile Defense Organization  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 <sup>e</sup>	Thousands of Dollars
81	0604861C Theater High-Altitude Area Defense System - TMD - EMD	5					664,000 U
82	0604864C Battle Management and C4I for TMD Acquisition - EMD	5		534	14,301		17,976 U
83	0604865C Patriot PAC-3 Theater Missile Defense Acquisition - EMD	5		275,683	247,921		160,070 U
84	0604866C ERINT/Patriot PAC-3 Risk Reduction - TMD - EMD	5		74,000	19,485		9,760 U
85	0604867C Navy Lower Tier TMD Acquisition - EMD	5			237,473		193,600 U
	Engineering and Manufacturing Development			350,217	519,180		1,045,406
95	0605218C Ballistic Missile Defense RDT&E Program Management and Support	6		197,996	185,542		188,418 U
	RDT&E Management Support			197,996	185,542		188,418
Total	Ballistic Missile Defense Organization		2,605,089	2,467,593	2,442,199		2,483,619

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## UNCLASSIFIED

Office of Secretary/Defense  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars
1	0601101D In-House Laboratory Independent Research	1	2,257	2,331	3,551	2,265	U
3	0601103D University Research Initiatives	1	240,155	249,734	236,165	247,047	U
4	0601110D Focused Research Initiatives	1	11,485	5,909	14,009	21,062	U
	Basic Research		253,897	257,974	253,725	270,374	
6	0602160D Counterproliferation Support	2			9,952		U
8	0602227D Medical Free Electron Laser	2	20,389	23,385	13,258	24,661	U
9	0602228D Historically Black Colleges and Universities (HBCU) Science and Engineer	2		22,540	14,779	15,095	U
10	0602234D Lincoln Laboratory Research Program	2			19,903	21,099	U
17	0602787D Medical Technology	2	9,265	7,643	7,501	6,532	U
	Exploratory Development		29,654	53,568	65,393	67,387	
19	0603002D Medical Advanced Technology	3	11,027	4,046	4,088	3,536	U
20	0603104D Explosives Demilitarization Technology	3	17,946	4,009			U
21	0603122D Counterterror Technical Support	3	5,905	8,228	12,044	6,033	U
22	0603160D Counterproliferation Support - Adv Dev	3		25,600	55,331	56,928	U
27	0603225D Joint DoD-DoE Munitions Technology Development	3	17,160	24,143	16,799	16,989	U
31	0603570D Defense Laboratory Partnership Program	3		70,550	16,106	25,540	U
33	0603704D Special Technical Support	3	18,735	10,061	18,187	17,576	U
35	0603716D Strategic Environmental Research Program	3	158,457	55,137	58,435	95,371	U
36	0603724D Biological Defense - Advanced Development	3	9,572	52,305			U

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Office of Secretary/Defense  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars	U
37	0603725D Computers & Communications to Reduce Medical Cost	3	2,917					U
38	0603726D Joint Technology Insertion Program	3			4,976			4,976 U
39	0603736D CALS Initiative	3	8,461	13,886	6,545			6,461 U
40	0603738D Cooperative DoD/VA Medical Research	3	19,446	44,533				U
48	0603750D Advanced Concept Technology Demonstrations	3		31,741	63,251			80,734 U
49	0603755D High Performance Computing Modernization Program	3	44,119	65,059	89,682			116,878 U
50	0603756D Consolidated DoD Software Initiative	3	22,036	24,492				U
53	0603832D Joint Wargaming Simulation Management Office	3	72,467	54,390	77,690			79,750 U
	Advanced Development		408,248	488,180	423,134			510,772
56	0603228D Physical Security Equipment	4	20,091	27,665	20,092			21,615 U
57	0603708D Integrated Diagnostics	4	10,046	11,483	10,266			10,244 U
58	0603709D Joint Robotics Program	4	26,294	23,115	17,382			17,941 U
59	0603714D Advanced Sensor Applications Program	4	38,521	31,698	25,923			26,641 U
60	0603715D AIM-9 Consolidated Program	4	23,951	48,681				U
62	0603790D NATO Research and Development	4	46,380	34,832	45,642			55,201 U
63	0603851D Environmental Security Technical Certification Program	4		43,923	14,939			14,884 U
76	0604705D Mobile Offshore Base Analysis	4	16,529					U
	Demonstration and Validation		181,812	221,397	134,244			146,526
78	0604160D Counterproliferation Support - EMD	5		2,000	2,786			2,787 U

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Office of Secretary/Defense  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 e c
Thousands of Dollars						
80	0604771D Joint Tactical Information Distribution System (JTIDS)	5	47,500	83,469	62,068	46,784 U
Engineering and Manufacturing Development						
87	0603710D Classified Program - C3I	6	4,494	8,002	2,510	2,430 U
89	0605104D Technical Studies, Support and Analysis	6	25,079	24,372	39,302	39,019 U
90	0605110D Technical Support to USD(A)--Critical Technology	6	1,711	2,630	2,651	2,884 U
92	0605117D Foreign Material Acquisition and Exploitation	6	98,583	103,731	46,338	46,088 U
93	0605129D Technical Assistance	6			4,927	5,031 U
94	0605160D Counterproliferation Support	6		4,831	6,468	6,967 U
97	0605502D Small Business Innovative Research	6	12,297			U
98	0605790D Small Business Innovative Research Administration	6		1,484	1,574	1,711 U
102	0305154D Defense Airborne Reconnaissance Program	6			10,000	33,600 U
103	0305889D Counterdrug Intelligence Support	6	1,475			U
RDT&E Management Support						
114	0303140D Information Systems Security Program	7	143,639	145,050	113,770	137,730
123	0305141D Joint Remotely Piloted Vehicles Program	7	81,814		23,884	11,027 U
124	0305154D Defense Airborne Reconnaissance Program	7		655,269	515,148	391,246 U
131	0305190D C3I Intelligence Programs	7	16,289	16,307	7,907	7,445 U
Operational Systems Development						
			98,103	671,576	546,939	409,718
Total Office of Secretary/Defense						
			1,162,853	1,923,214	1,602,059	1,592,078

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## UNCLASSIFIED

Advanced Research Projects Agcy  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
2	0601101E Defense Research Sciences	1	85,889	87,552	89,732	92,521	U
	Basic Research						
11	0602301E Computing Systems and Communications Technology	2	321,216	388,991	403,875	384,777	U
13	0602702E Tactical Technology	2	90,053	121,667	113,168	124,649	U
14	0602708E Integrated Command and Control Technology	2	84,490	81,554	48,000	67,603	U
15	0602712E Materials and Electronics Technology	2	261,174	274,114	226,045	269,658	U
	Exploratory Development						
28	0603226E Experimental Evaluation of Major Innovative Technologies	3	599,914	671,792	618,005	595,873	U
30	0603569E Advanced Submarine Technology	3	43,839	32,381	7,473	9,942	U
32	0603570E Defense Reinvestment	3	495,502	443,196	500,000	400,000	U
41	0603739E Advanced Electronics Technologies	3	377,801	409,763	419,863	443,458	U
42	0603744E Advanced Simulation	3	27,107	29,537	5,799	14,614	U
43	0603745E Semiconductor Manufacturing Technology	3	89,000	89,227	89,554		U
44	0603746E Maritime Technology	3	38,750	52,000	49,657	49,708	U
45	0603747E Electric Vehicles	3	46,250	15,000			U
46	0603748E Natural Gas Vehicles	3	15,000				U
47	0603749E Earth Conservancy	3	10,000				U
52	0603800E Joint Advanced Strike Technology - Dem/Val	3			30,675	80,925	U
55	0305889E Counterdrug Intelligence Support	3	30,123				U
	Advanced Development						
			1,773,286	1,742,896	1,721,026	1,594,520	

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## UNCLASSIFIED

Advanced Research Projects Agcy  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars						
91	0605114E BLACK LIGHT	6	4,875	4,875	4,745	4,730 U
101	0605898E Management Headquarters (Research and Development	6	27,580	30,218	32,643	33,881 U
	RD&E Management Support		32,455	35,093	37,388	38,611
Total	Advanced Research Projects Agcy		2,648,563	2,731,867	2,639,234	2,572,339

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## UNCLASSIFIED

National Security Agency  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars	
54	0303132G Global Grid Communications	3						U
55	0304211G National Activities	3						U
56	0305166G Special Development	3						U
Advanced Development								
109	0301011G Cryptologic Activities	7						U
117	0303140G Information Systems Security Program	7						U
127	0305154G Defense Airborne Reconnaissance Program	7						U
131	0305159G Defense Reconnaissance Support Activities	7						U
135	0305885G Tactical Cryptologic Activities	7						U
136	0305889G Counterdrug Intelligence Support	7						U
Operational Systems Development								
Total National Security Agency								

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## UNCLASSIFIED

Defense Nuclear Agency  
 FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c
		Thousands of Dollars				
16	0602715H Defense Nuclear Agency	2	234,226	218,938	219,003	230,724 U
	Exploratory Development		234,226	218,938	219,003	230,724
34	0603711H Verification Technology Demonstration	3	40,703	36,063	33,971	31,925 U
	Advanced Development		40,703	36,063	33,971	31,925
Total	Defense Nuclear Agency		274,929	255,001	252,974	262,649

## UNCLASSIFIED

Defense Support Project Office  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
126	0305154I	Defense Airborne Reconnaissance Program	7	334,519				U
127	0305157I	Land Remote Sensing Satellite System	7	34,506				U
130	0305159I	Defense Reconnaissance Support Activities	7	12,011	46,715	59,183	59,588	U
		Operational Systems Development		381,036	46,715	59,183	59,588	
		Total Defense Support Project Office		381,036	46,715	59,183	59,588	

## UNCLASSIFIED

Joint Chiefs of Staff  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars						
61	0603734J Island Sun Support	4		2,770	1,584	1,285 U
77	0201135J CINC C2 Initiatives	4	7,506			U
	Demonstration and Validation		7,506	2,770	1,584	1,285
105	0201135J CINC C2 Initiatives	7	1,192	1,389	200	200 U
117	0303154J WWMCCS ADP Modernization	7	1,995			U
	Operational Systems Development		3,187	1,389	200	200
Total	Joint Chiefs of Staff		10,693	4,159	1,784	1,485

## UNCLASSIFIED

Defense Information Systems Agency  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars	U
18	0305108K	Command and Control Research	2	1,801	1,687	1,999	2,110	U	
		Exploratory Development							
86	0604889K	Counterdrug Engineering and Manufacturing Development Projects	5	414	1,687	1,999	2,110	U	
		Engineering and Manufacturing Development							
106	0208045K	C3 Interoperability (Joint Tactical C3 Agency)	7	26,657	32,286	25,338	24,769	U	
109	0302016K	National Military Command System-Wide Support	7	3,972	3,623	2,153	2,144	U	
110	0302019K	Joint/Defense Information Systems Engineering and Integration	7	10,601	9,725	5,138	4,954	U	
111	0303126K	Long-Haul Communications (DCS)	7	38,500	27,629	20,538	19,368	U	
112	0303127K	Support of the National Communications System	7	3,864	4,229	4,062	4,042	U	
113	0303131K	Minimum Essential Emergency Communications Network (MEECN)	7	2,825	2,998	2,269	2,179	U	
116	0303153K	Joint Spectrum Center	7			4,859	4,883	U	
		Operational Systems Development							
				86,419	80,490	64,357	62,339		
				88,634	82,177	66,356	64,449		
		Total Defense Information Systems Agency							

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Defense Intelligence Agency  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars	
108	0301301L General Defense Intelligence Program	7						U
118	0305098L Defense Support Activity - IPSP	7						U
132	0305884L Intelligence Planning and Review Activities	7						U
135	0305898L Management Headquarters (Auxiliary Forces)	7						U
	Operational Systems Development							
Total	Defense Intelligence Agency							

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## UNCLASSIFIED

Central Imagery Office  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997	Thousands of Dollars	
119	0305106LC Consolidated Imagery Activities	7						U
120	0305107LC Tactical Imagery Activities	7						U
	Operational Systems Development							
Total	Central Imagery Office							

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## UNCLASSIFIED

Defense Logistics Agency  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Line No	Program Element Number	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars							
51	0603771S	Industrial Preparedness Manufacturing Technology	3		19,650	7,007	6,967 U
Advanced Development							
88	0603712S	Generic Logistics R&D Technology Demonstrations	6		19,650	7,007	6,967
99	0605798S	Defense Support Activities	6	15,281	14,679	14,752	18,600 U
100	0605801S	Defense Technical Information Center	6		42,755	42,989	14,410 U
104	0708011S	Industrial Preparedness	6	21,850			44,681 U
RDT&E Management Support							
Total Defense Logistics Agency				37,131	57,434	74,541	77,691
				37,131	77,084	81,548	84,658

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## UNCLASSIFIED

Defense Investigative Service  
FY 1996/1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: FEB 1995

Program Line Element No	Item	Act	FY 1994	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars	
121	0305127V Foreign Counterintelligence Activities	7						U
	Operational Systems Development							
	Total Defense Investigative Service							

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